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## 肝细胞癌 中Survivin mRNA和Survivin-ΔEx3 mRNA的表达及临床意义

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### Expression and Significance of Survivin and Survivin-ΔEx3 mRNA in Hepatocellular Carcinoma

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摘要

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摘要

目的 探讨凋亡抑制基因Survivin异构体Survivin-ΔEx3在肝细胞癌(Hepatocellular Carcinoma, HCC)中的表达及其与临床病理之间的关系。方法 采用RT-PCR方法对26例肝细胞癌、24例癌旁组织Survivin及Survivin-ΔEx3的mRNA进行检测。分析Survivin-ΔEx3 mRNA表达与临床各项指标(性别、癌组织大小、临床病理分期、TNM分期等)之间的关系,分析Survivin-ΔEx3与野生型肝细胞癌之间的相关性。结果 在26例HCC标本中, Survivin-ΔEx3 mRNA阳性表达15例, 占58%, 阴性表达11例, 占42%。HCC组织的Survivin-ΔEx3 mRNA表达与患者性别、HBsAg、肝硬化、病灶单发或多发瘤、肿瘤的大小、包膜、癌栓及淋巴结转移无显著相关性( $P > 0.05$ ), 而与病理学分级和TNM分期有显著相关性( $P < 0.05$ )。癌旁组织中未见Survivin mRNA表达。Survivin-ΔEx3的表达与Survivin之间无相关性( $P > 0.05$ )。结论 Survivin-ΔEx3与HCC的侵袭性和预后明显相关, 且Survivin-ΔEx3的表达与Survivin之间无明显关系, 可以作为判断HCC侵袭性和进展的一个潜在预测指标。

**关键词** : Survivin-ΔEx3, Survivin, 异构体, 肝细胞癌, 临床病理

**Abstract :**

Objective To evaluate the expression and significance of survivin isomer (survivin-ΔEx3) in hepatocellular carcinoma (HCC). Methods Reverse transcription polymerase chain reaction (RT-PCR) was used to detect the expression of survivin and survivin-ΔEx3 in 26 cases of hepatocellular carcinoma, 24 cases of pericarcinomatous liver tissue. The relationship between the expression of survivin-ΔEx3 mRNA and clinicopathological data was determined. The relationship between survivin-ΔEx3 and survivin was analyzed. Results Positive survivin-ΔEx3 mRNA expression was found in 15 out of the 26 (58%) patients but was completely negative in adjacent normal tissues. The expression of survivin-ΔEx3 mRNA in HCC was not correlated with gender, HBsAg, cirrhosis, tumor number, tumor size, tumor encapsulation, tumor thrombus and lymph node metastasis ( $P > 0.05$ ), but significantly correlated with histological differentiation and TNM stage ( $P < 0.05$ ). There was no significant correlation between the expression of survivin-ΔEx3 and survivin ( $P > 0.05$ ). Conclusion The high-expression of survivin-ΔEx3 might evaluate the invasion and progression of HCC, which had no correlation with the expression of survivin.

**Key words** : Survivin-ΔEx3 Survivin Isomer Hepatocellular carcinoma Clinicopathology

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